PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC SIGNAL AT THE INTERSECTION OF ROSEWICK ROAD AT RADIO STATION ROAD IN CHARLES COUNTY MD. ROSEWICK ROAD IS CONSIDERED TO RUN IN AN EAST/WEST DIRECTION.

AN NEMA "6" SIZE BASE MOUNTED CABINET WITH CONTROLLER SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 4 NEMA PHASES. THERE WILL BE AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR WESTBOUND MOVEMENT OF ROSEWICK ROAD. THE ROSEWICK ROAD THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH A CONCURRENT PEDESTRIAN MOVEMENT ACROSS THE SOUTH LEG OF THE INTERSECTION. THE RADIO STATION ROAD MOVEMENT WILL OPERATE ALONE.

SPECIAL NOTES

1. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS: CHARLES COUNTY CONTACTS MR. ARTHUR SWAN - PROGRAM MANAGER PHONE: (301) 885-1314 EXT 2314 MD-SHA CONTACTS MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630 MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS PHONE: (410) 787-7652

POWER COMPANY: SMECO's Contact Person: Roni Johnson 15035 Burnt Store Road Hughesville, MD 20637-1937 301-396-4902

WMS# 93438

2. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP. CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

3. APS WILL FUNCTION AS FOLLOWS:

FOR RADIO STATION ROAD

A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS RADIO STATION of ROSEWICK, WAIT".
B. WHEN WALK PHASE BEGINS, THE AUDIBLE SOUND WILL BE A RAPID TICK, WHICH WILL LAST FOR

THE DURATION OF THE WALK PHASE.

UNITS DESCRIPTION

GENERAL NOTES

- 1. VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- 2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION. 3. PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS
- 4. GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- 5. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- 6. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 IN. FROM A 60 IN. × 60 IN. LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- 7. THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- 8. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.

QUANTITY UNITS DESCRIPTION

- 9. THE LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 & FIG 4E-2 AND THE NCHRP PUBLICATION. "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- 10. CONTRACTOR TO UTILIZE THE FOLLOWING MD-SHA TRAFFIC CONTROL TYPICALS DURING CONSTRUCTION: MD 104.04-01; MD 104.04-03; MD 104.04-05
- 11: DETECTABLE WARNING SURFACES SHALL BE INSTALLED AS MD-SHA STANDARD MD-655-40. AND CONFORM TO MD-SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS SECTION 611.

4. THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7631 TO ARRANGE FOR THE PHONE DROP INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET NUMBER, ZIP CODE, AND TELEPHONE NUMBER.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

20 IN. \times VAR. D-3(1) SIGN - MAST ARM

32 IN. \times VAR. D-3(1) SIGN - MAST ARM

48 IN. × 48 IN. W3-3 SIGN - GROUND MOUNT

24 IN. \times 24 IN. W16-14(1) "NEW" SIGN - GROUND MOUNT

20 IN. \times VAR. D-3(2) (BIK on Y) SIGN - GROUND MOUNT

LUMP SUM	LS	MAINTENANCE OF TRAFFIC	4	CY	TEST PIT EXCAVATION
LUMP SUM	LS	MOBILIZATION	11	EA	HANDHOLE
1	EA	10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY COUPLING (MD 818.16-01) BASE	50	LF	1-CONDUCTOR CABLE (NO. 8 AWG)
. 1	EA	14 FT. STEEL PEDESTAL POLE WITH BREAKAWAY TRANSFORMER BASE	430	LF	2-CONDUCTOR TRAY CABLE (NO.12 AWG)
1	EA	27 FT. STEEL MAST ARM POLE WITH 70 FT. MAST ARM	220	LF	2-CONDUCTOR CABLE (NO. 14 AWG)
1	EA	27 FT. STEEL TWIN MAST ARM POLE WITH 50 FT. AND 60 FT. MAST ARMS	340	LF	5-CONDUCTOR CABLE (NO. 14 AWG)
2	EA	20 FT. LUMINAIRE ARM	1025	LF	7-CONDUCTOR CABLE (NO. 14 AWG)
2	EA	250W HPS LAMP AND LUMINAIRE	330	LF	BARE COPPER GROUND WIRE (NO. 6 AWG)
1	EA	STANDARD S.H.A. TRAFFIC SIGNAL CONTROLLER, BASE MOUNTED NEMA "S"	40	LF	2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
		CABINET WITH VIDEO DETECTION INTERFACE, AND ONE (1) FOUR-CHANNEL LOOP DETECTOR AMPLIFIER [No+e: CONTROLLER AND CABINET SHALL BE PURCHASED FROM ECONOLITE AND DELIVERED TO THE MD-SHA SIGNAL SHOP FOR WIRING AND TESTING, CONTACT MR. ED RODENHIZER (410) 787-7650]	590	LF	3 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
			225	LF	3 IN. PVC CONDUIT [SCHEDULE 80] — BORED
2	EA	VIDEO DETECTOR CAMERA (TERRA)	20	LF	4 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
725	LF	VIDEO DETECTOR CAMERA CABLE	410	LF	4 IN. PVC CONDUIT [SCHEDULE 80] — BORED
4	EA	NON-INVASIVE PROBE (SET OF 3) WITH 1000 FT. LEAD-IN CABLE	14	CY	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT
2	EA	AUDIBLE PEDESTRIAN PUSHBUTTON ASSEMBLY WITH PUSHBUTTON SIGN	6	EA	GROUND ROD -3/4IN. X 10 FT. LENGTH
1	EA	APS 2-WIRE CENTRAL CONTROL UNIT	1	EA	EMBEDDED ELETRICAL SERVICE PEDESTAL (100 AMPS)
5	EA	12 IN. 3-SECTION LED SIGNAL HEAD - MAST	90	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
1	EA	12 IN. 3-SECTION LED SIGNAL HEAD - POST TOP	144	LF	4 IN. x 6 IN. WOOD SIGN SUPPORTS
1	EA	12 IN. 5-SECTION LED SIGNAL HEAD - MAST	4	EA	REMOVE EXISTING SIGN - GROUND
1	EA	8 IN./12 IN. 5-SECTION LED SIGNAL HEAD - MAST	2	EA	ADA PEDSTRAIN RAMP (MD-SHA STD. 655.11) [to include
1	EΑ	16 IN.1-SECTION, 1-WAY LED (COUNTDOWN) PEDESTRIAN SIGNAL HEAD - POST TOP			removal of existing material and installation of cast in place Detectable Warning Surfaces]
1	EA	16 IN.1-SECTION, 1-WAY LED (COUNTDOWN) PEDESTRIAN SIGNAL HEAD - SIDE POLE	160	SF	4 IN. CONCRETE SIDEWALK [to include removal of existing material]
2	EA	30 IN. × 36 IN. R3-5 REGULATORY SIGN - MAST ARM			



Professional Certification. I certify that these documents were prepared or approved by me, and that I am a duty licensed professional engineering under the laws of the state of Maryland.

Permit No.

Expires on:

lemarks or Conditions:

Signed

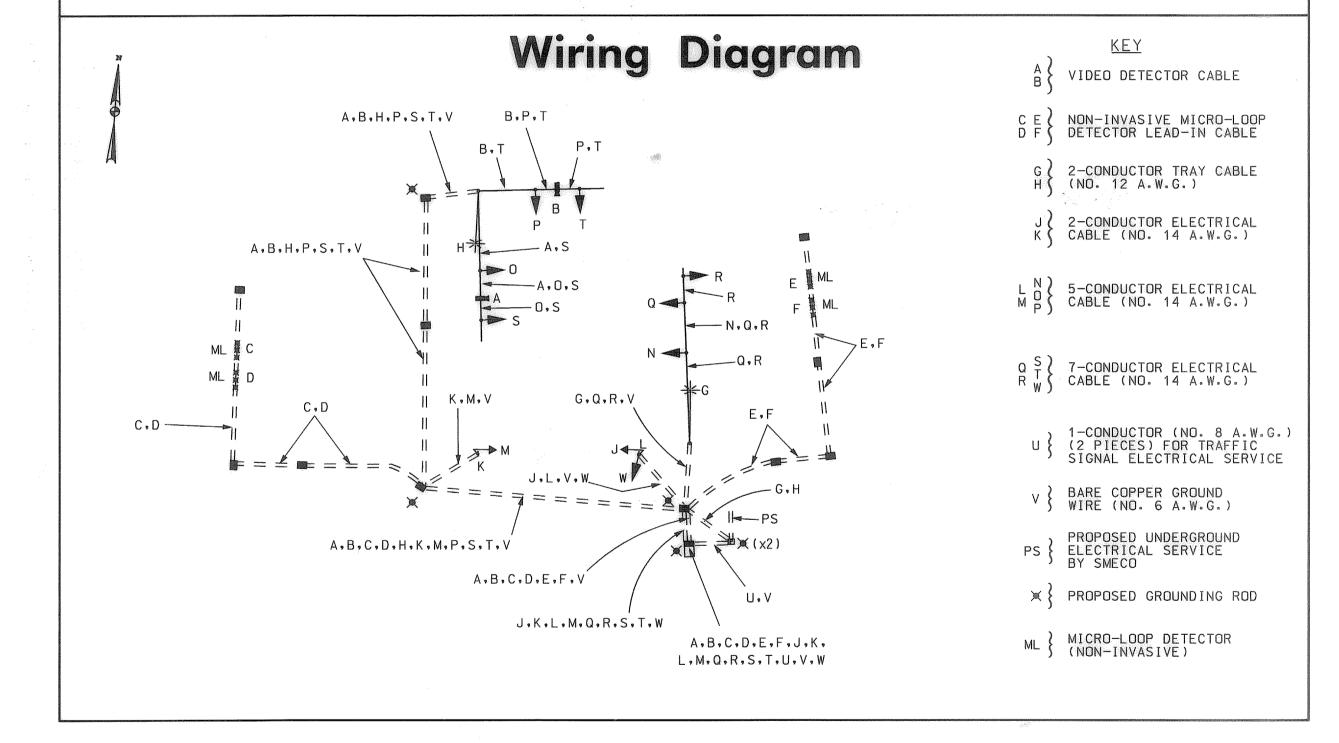
CHARLES COUNTY GOVERNMENT **APPROVAL**

License No. 33316 Expiration Date 7/13/14

Phase Chart

1 2 3 4 5 6 7 27 8 9

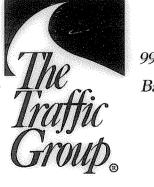
PHASE 2 AND 5	R	R	← G/G	∢ -G∕G	G	R	R	R	DW	
5 CHANGE	R	R	4 -Y∕G	4 -Y∕G	G	R	R	R	DW	H ₩_
PHASE 2 AND 6	G	G	G	G	G	R	R	R	WK	
PED CLEARANCE	G	G	G	G	G	R	R	R	FL/DW	
2 AND 6 CHANGE	Υ	Υ	Υ	Υ	Υ	R	R	R	DW	• • T
PHASE 4	R	R	R	R	R	G	G	G	DW	A 1
4 CHANGE	R	R	R	R	R	Υ	Υ	Υ	DW	H
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	4



BW095M81 Rosewick Road @ Radio Station Road

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

ROSEWICK ROAD AT RADIO STATION ROAD LaPlata , MD



The Traffic Group, Inc. Suite H 9900 Franklin Square Drive Baltimore, Maryland 21236 410-931-6600 1-800-583-8411 Fax 410-931-6601

"Merging Innovation and Excellence" ®

GENERAL INFORMATION PLAN

SCALE N/A	DATE	July 3, 2012		CONTRACT NO					
DEGIGINED DI	J. Dirndorfer/TTC J. Dirndorfer/TTC		COUNTY		CHARLES 08011401.64				
CHECKED BY	N/A		TIMS NO	TIMS NO. <u>L501</u> TOD NO. <u>N/A</u>					
TS NO. 4855-GI	DRAWING	SG - 02	OF 02	SHEET NO.	2	OF	2		

PLOTTED: Tuesday, July 03, 2012 AT 11:10 AM FILE: F:\2011\2011-0711\des\Signal Plan.dgn PGM#VCI 12-0012